

1. Record Nr.	UNIORUON00257545
Autore	CONVEGNO INTERNAZIONALE DI ARCHEOLOGIA RUPESTRE : 2. : 1997
Titolo	Archeologia e arte rupestre : l'Europa, le Alpi, la Valcamonica : Atti del Convegno di Studi 2-5 ottobre 1997 Darfo Boario Terme / Secondo Convegno Internazionale di Archeologia rupestre
Pubbl/distr/stampa	273 p., : ill. ; 29 cm
Edizione	[[Milano : Comune di Milano]]
Descrizione fisica	In testa al front.: Comune di Milano. Settore Cultura Musei e Mostre. Civiche Raccolte Archeologiche
Disciplina	709.0113
Soggetti	Archeologia e arte rupestre - Congressi ARTE RUPESTRE Congressi - Darfo Boario Terme - 1997
Lingua di pubblicazione	Italiano
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2. Record Nr.	UNINA9911020425003321
Autore	Polini Eleonora
Titolo	Broadband Quantum Noise Reduction in Advanced Virgo Plus : From Frequency-Dependent Squeezing Implementation to Detection Losses and Stray Light Mitigation // by Eleonora Polini
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2025
ISBN	3-031-95143-3
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (321 pages)
Collana	Springer Theses, Recognizing Outstanding Ph.D. Research, , 2190-5061
Disciplina	530.1
Soggetti	Gravitation Quantum optics Astrophysics Optoelectronic devices Gravitational Physics Quantum Optics Optoelectronic Devices
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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Nota di contenuto	Gravitational waves -- Ground based gravitational waves detectors -- Theory of quantum light in gravitational waves detectors -- Quantum noise reduction system overview in Advanced Virgo Plus -- Quantum noise reduction system commissioning -- Stray light in gravitational waves detectors -- Ghost beams study and mitigation -- Active control of scattered light on the FDS system -- Matching of the squeezing beam to the ITF -- New high finesse Output Mode Cleaner for Advanced Virgo Plus.
Sommario/riassunto	This book presents the first implementation of frequency-dependent squeezing in the Virgo gravitational wave detector, a technique that reduces quantum noise across the entire detection band. By lowering noise, it enhances Virgo's ability to observe the universe. It provides a detailed account of the experimental optical system—spanning hundreds of meters—and the measurement campaign that led to the first observation of frequency-dependent squeezing, with ellipse

rotation occurring at the target frequency of a few tens of Hz. Additionally, the book covers the characterization and commissioning of a new Output Mode Cleaner cavity in Virgo to minimize optical losses on squeezed states. Finally, it examines the impact of stray light noise at low frequencies and explores mitigation strategies to improve detector sensitivity.

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